

**AROUSAL DEGREE DROP WARNING DEVICE**

Patent Number: JP8268287  
Publication date: 1996-10-15  
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Requested Patent: ☐ JP8268287  
Application  
Number: JP19950073057 19950330  
Priority Number(s):  
IPC Classification: B62D1/00; B60K28/06; B60R27/00  
EC Classification:  
Equivalents: JP3094834B2

**Abstract**

**PURPOSE:** To secure the extent of safety in time of vehicle traveling by operating an automatic steering actuator of an automatic steering means and selecting it to automatic steerage in the case where something wrong with the arousal degree of a driver is judged by an arousal degree judging means, and imparting a warning vibration to the steering means as long as the specified time.

**CONSTITUTION:** During car driving, a heart rate is detected by two infrared type heartbeat sensors 2, 3 and a potential type heartbeat sensor 7, and anything unusual in an arousal degree and a degree of tenseness of a driver are judged by a hearthead arousal degree judging means 10. In addition, a parameter of steering elements is calculated from the output of a steering angle sensor 11, and from the calculated result, something wrong with the arousal degree of the driver is judged by a steering arousal degree judging means 13. In the case of judging the arousal degree abnormality, an automatic steerage operating means 21 is operated by a warning controller 19, and steering control is selected to an automatic steering mode. In succession, an acoustic sense warning means 18 is operated, while a tactile sense warning means 17 is operated, through which a vibration is imparted to a steering wheel by a vibro-input means, awakening the driver.

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